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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/720,230	11/25/2003	Naruhiro Masui	R2184.0076/P076-A	4347	
DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW Washington, DC 20006-5403			EXAMINER		
			CHU, KIM KWOK		
			ART UNIT	PAPER NUMBER	
·			2627		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		01/10/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/720,230	MASUI, NARUHIRO				
Office Action Summary	Examiner	Art Unit				
·	Kim-Kwok CHU	2627				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vortice to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tiruly will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	·	•				
1)⊠ Responsive to communication(s) filed on RCE	& Amendment filed on 11/30/200	26				
	action is non-final.	50 .				
, ,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
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Disposition of Claims		•				
4)⊠ Claim(s) <u>14,15 and 17</u> is/are pending in the ap	plication.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>14,15 and 17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	r. ,					
10)⊠ The drawing(s) filed on <u>25 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex		•				
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Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received.						
2. Certified copies of the priority document		ion No. 09/584 693				
	• •					
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau	· · · · · · · · · · · · · · · · · · ·					
* See the attached detailed Office action for a list	of the certified copies not receive	: 0				
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Attachment(s)	Λ Π (-1 t α	(DTO 442)				
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) Other:					

Response to Remarks

1. Applicant's Remarks filed on November 30, 2006 has been fully considered but it is not persuasive.

With respect to the rejected Claims 14, 15 and 17,

Applicant states that the prior art of Taniguchi does not disclose or suggest a first sync pattern formed as a space on the recording medium and a second sync pattern formed as a mark on the recording medium (page 5 of the Remarks, lines 10-13). Accordingly, the terms "space" and "mark" are components of a recorded data pattern. Using spaces and marks, the prior art of Taniguchi teaches that pre-information (headers) containing even sync and odd sync patterns formed on tracks (Figs. 1, 11A and 13; column 10, lines 26-46). Since each sync pattern is formed by spaces and marks in the optical recording medium, it can be considered that Taniguchi's first sync pattern is formed by spaces separated by marks and second sync pattern is formed by marks separated by spaces as in Applicant's Claim 14.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a
printed publication in this or a foreign country or
in public use or on sale in this country, more than
one year prior to the date of application for patent
in the United States.

- 3. Claims 14, 15 and 17 are rejected under 35 U.S.C. § 102(b) as being anticipated by Taniguchi et al. (U.S. Patent 5,901,123).
- 4. Taniguchi teaches an information recording apparatus for recording a sequence of sync frames having all the elements and means as recited in claims 14 and 15. For example, Taniguchi teaches the following:
- (a) With respect to Claim 14, the sequence of sync frames indicates of data onto tracks of an optical recording medium in which pre-information 4 are formed on the tracks at given intervals (Figs. 1 and 2; column 9, lines 43 and 44); the sync frames in which sync patterns, providing synchronization on a sync-frame basis, are inserted in the sync frames such that each sync pattern has a length in a track direction larger than a length of one

of the pre-information 4 and a position of each sync pattern matches with a position of at least one of the preinformation 4 (Fig. 2; column 10, lines 16 and 18); first (even) sync information generating means for generating first codes (even sync pre-information) that represent first sync patterns for a portion of the sync frames such that each first (even) sync pattern is formed as a space 3 on the recording medium (Fig. 2; sync information has even and odd patterns; even sync pattern is formed by spaces separated by marks); second (odd) sync information generating means for generating second codes (second sync pre-information) that represent second (odd) sync patterns for the remainder of the sync frames such that each second (odd) sync pattern is formed as a mark on the recording medium so as to meet a low-frequency reduction scheme (Fig. 2; sync information has even and odd patterns; odd sync pattern is formed by marks separated by spaces; preformatted sync information requires low C/N ratio; column 1, lines 44-46); sync information selecting means (in preformat encode 22) for selecting one of the first (even) codes generated by the first sync information generating means and the second (odd) codes generated by the second sync information generating means (Figs. 3 and 4; even and odd pre-information are written of the tracks); prepit

position signal detecting (selecting) means 42 for detecting a prepit position signal from one of the prepits for each of the sync frames during the writing of the recording pulses to the recording medium (Figs. 4 and 5; column 15, lines 35-50); write position signal generating means for generating a write-position start signal based on the prepit position signal detected by the prepit position signal detecting means (Figs. 8A and 8B; column 15, lines 33-50); data encoding means 22 for generating modulation codes based on the sync frames in which the codes selected by the sync information selecting means are inserted, by modulating the sync frames containing the selected codes in accordance with a predetermined modulation scheme (Figs. 3 and 4); the data encoding means 22 generating a sequence of recording pulses by converting the modulation codes through a predetermined conversion scheme, and the data encoding means starting outputting the sequence of recording pulses in accordance with the write-position start signal supplied by the write position signal generating means (Figs. 6A-6C).

(b) With respect to Claim 15, the prepit position signal detecting means 42 detects a prepit position signal from a sync prepit of the prepits for one of the sync frames, and the write position signal generating means

generates a write-position start signal based on the detected prepit position signal, and the sync information selecting means is configured to select the first codes when a position of one of the sync patterns on the track adjacent to the land where the sync prepit is formed, matches with a position of the sync prepit, and otherwise to select the second codes (Figs. 8A and 8B; column 15, lines 33-50).

- 5. Claim 17 has limitations similar to those treated in the above rejection, and is met by the reference as discussed above. Claim 14 however also recites the following limitation which is also taught by the prior art of Taniguchi:
- (a) a position of a data mark matches with a position of at least one of the prepits (Fig. 2; data are indexed by prepits).

6. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kim CHU whose telephone number is (571) 272-7585 between 9:30 am to 6:00 pm, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington, can be reached on (571) 272-4483.

The fax number for the organization where this application or proceeding is assigned is (571) 273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9191 (toll free).

Kim-Kwok CHU (/3/1007)

Examiner AU2627

January 3, 2007 (571) 272-7585 TAN DINH PRIMARY EXAMINER

1104/07